

DevOps: Using Vagrant To Enhance Your Day to Day Development



Rob Reynolds
@ferventcoder



Who am I?

- Developer at Puppet Labs
- Core FOSS Platform Team - we maintain Puppet, Facter, Hiera, etc
- Author of Chocolatey
- Co-author of Chuck Norris Framework (RoundhouseE, DropkickK, UppercuT, etc)

What is Vagrant?

- ✦ Vagrant is a tool for building complete development environments. With an easy-to-use workflow and focus on automation, Vagrant lowers development environment setup time, increases development/production parity, and makes the "works on my machine" excuse a relic of the past.



Wait, Wat? Vagrant?

- ✧ Vagrant allows for
 - ✧ repeatable sandboxed environments
 - ✧ shareable
 - ✧ works on every machine



Vagrant is AWESOME

- ✦ Development environments are scripts, so source control
- ✦ Share with friends, family, perhaps coworkers
- ✦ Works on OSX, Windows, and most *nix flavors.
- ✦ Simple configuration
- ✦ Vagrant Up

VAGRANT

SO DEV

WOW

MUCH DONE

ALL THE THINGS

upload.me

Simple Commands

- ✦ `vagrant up`
- ✦ `vagrant ssh`
- ✦ `vagrant rdp (1.6+)`
- ✦ `vagrant halt`
- ✦ `vagrant reload`
- ✦ `vagrant destroy`

Vagrant Providers

- ✦ Virtualbox (builtin)
- ✦ Hyper-V (vagrant-windows-hyperv)
- ✦ VMWare (vagrant-vmware-fusion / vagrant-vmware-desktop)
- ✦ Azure (vagrant-azure)
- ✦ AWS (vagrant-aws)
- ✦ More at <https://bit.ly/vagrant-plugins>
- ✦ Build a custom provider

Vagrant Plugin Ecosystem

- ✦ sahara (snapshot) - sandbox in a sandbox
- ✦ vagrant-global-status (in 1.6+)
- ✦ vagrant-windows (deprecated as of 1.6+)
- ✦ vagrant-reload
- ✦ vagrant-oscar
- ✦ vagrant-rdp (deprecated at 1.6.1+)
- ✦ Much more - <https://bit.ly/vagrant-plugins>

Vagrant Cloud



- ✦ Box Distribution
- ✦ Discover
- ✦ Share
- ✦ Box versioning
- ✦ <https://vagrantcloud.com/>

Create and Manage Virtualized Development Environments



Vagrant

Up and Running

O'REILLY®

Mitchell Hashimoto

How can Vagrant help me?



Developer?

- ✦ Isolates dependencies & configuration
- ✦ All members of team get their own sandbox
- ✦ “Works on their machine?” == Works on your machine
- ✦ Keep your tools and versions separate from testing needs

QA?

- ✦ No need to find a physical box.
- ✦ Known starting point EVERY time.
- ✦ Test on multiple OS platforms and versions with a single command

Ops?

- ✦ Disposable environment for testing infrastructure changes
- ✦ You can take these same scripts and config and test against AWS, Azure, RackSpace with the same workflow
- ✦ Sanity

Demos



Questions?

- ✧ @ferventcoder / ferventcoder at gmail
- ✧ **Official Talks**
- ✧ #vagrant on freenode IRC
- ✧ <http://www.vagrantup.com>
- ✧ <http://docs.vagrantup.com>